

# CSE 7000 W13: Master's Thesis

Summer 2026

Georgia Institute of Technology

---

**Instructor:** Anqi Wu

**Department:** School of Computational Science and Engineering

**CRN:** 55797

**Course Format:** Faculty-supervised master's thesis research

**Meeting Time/Location:** By arrangement

**Office Hours:** By appointment

**Email:** awu36@gatech.edu

## Catalog Description

Master's thesis research conducted under the supervision of a faculty advisor, culminating in a written thesis and, when applicable, an oral defense.

## Course Overview

This course supports students in conducting original research leading to a master's thesis. Students are expected to identify a significant research problem, develop novel methods or insights, and produce a comprehensive written thesis that demonstrates technical depth, rigor, and originality.

## Learning Objectives

By the end of the course, students are expected to:

- formulate a novel and well-motivated research problem;
- design and execute a rigorous research methodology;
- demonstrate deep technical expertise in a specialized area;
- contribute original insights, methods, or findings;
- communicate research contributions clearly in a thesis and presentation.

## Thesis Structure

The thesis work typically includes:

- problem formulation and motivation;
- literature review and positioning within prior work;
- methodological development or system design;
- experiments, evaluation, and analysis;
- conclusions and discussion of future work.

## **Expectations**

Students are expected to demonstrate a high level of independence, rigor, and professionalism:

- meet regularly with the thesis advisor;
- maintain steady and well-documented progress;
- take ownership of research direction and execution;
- engage in critical thinking and iterative refinement of ideas.

A detailed research plan and timeline will be established early in the term.

## **Assessment**

Evaluation is based on research quality, originality, and completeness:

- Research formulation and significance: 20%
- Progress and execution: 30%
- Technical depth and originality: 30%
- Final thesis and presentation/defense: 20%

## **Deliverables**

The primary deliverables include:

- a written master's thesis;
- supporting materials (code, experiments, datasets, etc.);
- an oral presentation or thesis defense (if required).

## **Attendance and Communication**

There are no formal lectures. Students are expected to attend regular meetings with the advisor and maintain consistent, professional communication.

## **Late Work**

Thesis timelines will be defined in coordination with the advisor and program requirements. Students are expected to communicate early regarding any delays.

## **Academic Integrity**

All work must comply with the Georgia Tech Honor Code. Proper attribution of prior work, code, and datasets is required.

## **Accessibility and Student Support**

Students requiring accommodations should contact the Office of Disability Services and notify the instructor early. Georgia Tech provides additional academic and wellness resources to support student success.

## **Institute Policies**

All Georgia Tech policies on academic conduct, non-discrimination, accessibility, and student behavior apply.

*Note: This syllabus outlines general expectations for master's thesis research. Specific requirements may vary depending on the research project, advisor expectations, and program guidelines.*